

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~The use of A method for treating defective or degenerated cartilage in vivo, comprising administering to a subject a mixture of (i) one or more substances of group A) A selected from the group consisting of lubricin, proteoglycan 4 (PRG4) and phospholipids (SAPL); and (ii) with one or more substances of group B) B selected from the group consisting of hyaluronic acid, glycosaminoglycan and derivatives of these substances, wherein said substances are dissolved in a solvent, for the production of an agent for treating defective or degenerated cartilage in vivo.~~
2. (Currently Amended) ~~The use according to method of claim 1, characterized in that the wherein said phospholipids are surface active in nature.~~
3. (Currently Amended) ~~The use according to method of claims claim 1 or 2, characterized in that the wherein said hyaluronic acid has a molecular weight of at least 1 x 10⁶ Da.~~
4. (Currently Amended) ~~The use according to one method of the claims claim 1 to 3, characterized in that wherein the ratio by weight of the substances of group A to the substances of group B ranges from 0.05 to 0.40.~~
5. (Currently Amended) ~~The use according to one method of the claims claim 1 to 3, characterized in that wherein the ratio by weight of the substances of group A to the substances of group B ranges from 0.08 to 0.25.~~
6. (Currently Amended) ~~The use according to one method of the claims claim 1 to 5, characterized in that the wherein said solvent is a Ringer solution, preferably or a physiological salt solution.~~
7. (Currently Amended) ~~The use according to one method of the claims claim 1 to 6, characterized in that wherein the concentration of the substances of group A dissolved in the solvent range ranges from 0.02 to 0.05 % by weight.~~

8. (Currently Amended) The ~~use of one method of the claims~~ ~~claim 1 to 7, characterized in that~~ ~~wherein~~ the concentration of the substances of group B ~~dissolved~~ in the solvent ~~range~~ ~~ranges~~ from 0.2 to 0.4% by weight.

9. (Currently Amended) ~~The use of A method for the production of a natural cartilage replacement material, comprising dissolving in a solvent a mixture of (i) one or more substances of group A) A selected from the group consisting of lubricin, proteoglycan 4 (PRG4) and phospholipids (SAPL); and (ii) with one or more substances of group B) A selected from the group consisting of hyaluronic acid, glycosaminoglycan and derivatives of these substances dissolved in a solvent, for the production of natural cartilage replacement in vitro.~~

10. (Currently Amended) ~~Method for the production of a cartilage replacement material for cartilage defects in the joint region using a mixture~~ ~~The method of claim 9, characterized in that~~ ~~wherein~~ said natural cartilage replacement material comprises an open-pored, elastic cell-carrier body ~~is~~ populated in its pores with chondrocytes, and ~~wherein~~ a ~~said~~ mixture of ~~claim 9~~, dissolved in a physiologically acceptable solvent, is brought into contact with the chondrocytes.

11. (Currently Amended) The method of claim 10, ~~characterized in that the~~ ~~wherein~~ ~~said~~ solvent is moved over the cell-carrier body with a laminar flow.

12. (Currently Amended) The method of ~~claims~~ ~~claim~~ 10 or 11, ~~characterized in that, wherein~~ by means of a joint-like device, an axial and a rotational force is exerted simultaneously on the cell-carrier body.

13. (Currently Amended) The method of claim 12, ~~characterized in that~~ ~~wherein~~ the ~~rotation of the joint-like device~~ ~~rotational force~~ is carried out about two axes, which are orthogonal to one another.

14. (New) The method of claim 1, wherein the mixture comprises lubricin and hyaluronic acid.

15. (New) The method of claim 9, wherein the mixture comprises lubricin and hyaluronic acid.

16. (New) The method of claim 1, wherein the mixture comprises lubricin and hyaluronic acid.

17. (New) The method of claim 9, wherein the mixture comprises lubricin and glycosaminoglycan.